

Emergency Management Competency 2.3

Competency 2.3 Emergency management personnel shall demonstrate a working-level knowledge of the capabilities of the Department of Energy National Response Assets.

1. Supporting Knowledge and Skills

- a. Discuss the specific responsibilities of the Regional Coordinating Office associated with the Radiological Assistance Program (DOE Order 5530.3 [Old section 2.1.c.]).
- b. Discuss the functions, capabilities, and limitations of the Accident Response Group (DOE Order 5530.1A).
- c. Describe the capabilities, limitations, and responsibilities of the Nuclear Emergency Search Team (DOE Order 5530.2).
- d. Discuss the purpose, activation method, and capabilities of the Radiological Assistance Teams (DOE Order 5530.3).
- e. Describe the capabilities, limitations, and response times of the Aerial Measuring System (DOE Order 5530.4).
- f. Discuss the function, responsibilities, response times, and logistical needs of the Federal Radiological Monitoring and Assessment Center (DOE Order 5530.5).
- g. Describe the functions, major input parameters, and response times of the Atmospheric Release Advisory Capability.
- h. Discuss the functions and capabilities of the Radiological Emergency Assistance Center/Training Site.

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2. Self-Study Activities (corresponding to the intent of the above competency)

Below are two web sites containing many of the references you may need.

Web Sites		
Organization	Site Location	Notes
Department of Energy	http://wastenot.inel.gov/cted/stdguido.html	DOE Standards, Guides, and Orders
U.S. House of Representatives	http://law.house.gov/cfr.htm	Searchable Code of Federal Regulations

Read DOE Order 5530.3, *Radiological Assistance Program*, Section 7, "Concept of Operations."

EXERCISE 2.3-A Discuss the specific responsibilities of the Regional Coordinating Office (RCO) associated with the Radiological Assistance Program.

Read DOE Order 5530.1A, *Accident Response Group*, Section 7, pages 3 through 5.

EXERCISE 2.3-B Discuss the functions, capabilities, and limitations of the Accident Response Group (ARG).

Read DOE Order 5530.2, *Nuclear Emergency Search Team*, Section 6. "Concept of Operations."

EXERCISE 2.3-C Who is the single point of contact for all DOE operational elements at the incident site?

EXERCISE 2.3-D Who is responsible for the headquarters EM team?

Read DOE Order 5530.3, *Radiological Assistance Programs*, Section 7. "Concept of Operations."

EXERCISE 2.3-E Where are requests from off-site organizations for radiological assistance normally directed?

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Read DOE Order 5530.3. *Radiological Assistance Programs*, Section 9. “Administrative Guidelines and Considerations.”

EXERCISE 2.3-F When is DOE's radiological assistance terminated when providing assistance to state, local, tribal, or commercial authorities?

Read DOE Order 5530.3. *Radiological Assistance Programs*, Section 9.h. “Limitations on Assistance.”

EXERCISE 2.3-G When is DOE Radiological Assistance Program (RAP) assistance NOT going to be utilized?

Read DOE Order 5530.4, *Aerial Measuring System*.

EXERCISE 2.3-H What is the lead time for requests for planned surveys?

EXERCISE 2.3-I Who has oversight for the Aerial Measuring System, and what are the responsibility areas?

Read *Federal Radiological Monitoring and Assessment Center*, Section 4, “Policy.”

EXERCISE 2.3-J What is the intent of the policy of the Department?

Read *Federal Radiological Monitoring and Assessment Center*, Section 7, “Concept of Operations.”

EXERCISE 2.3-K For what magnitude of radiological incidents does FRMAC provide assistance?

EXERCISE 2.3-L To whom are the initial requests for assistance from outside the DOE complex submitted?

Read DOE Order 5500.1B, *Emergency Management System*, Sections 9.c(2)(f) and 10.aa.

EXERCISE 2.3-M HQ programmatic responsibility for DOE's radiological emergency response assets, including the Atmospheric Release Advisory Capability, is assigned to whom?

EXERCISE 2.3-N What Operations Office is assigned responsibility for managing and maintaining the ARAC?

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Read DOE Order 5500.1B, *Emergency Management System*, Section 10, “Responsibilities and Authority,” Item z.

Read DOE Order 5500.1B, *Emergency Management System*, Attachment 2.

EXERCISE 2.3-O What are the functions of the Radiological Emergency Assistance Center/Training Site (REAC/TS)?

EXERCISE 2.3-P What Operations Office is responsible for maintaining the REAC/TS?

3. Summary

The DOE National Response Assets are various response programs to respond to both radiological and nonradiological events around the country and the world. Although primarily developed to respond to DOE emergencies, they can and do respond to emergencies of other Federal agencies and state, local, and tribal government authorities. The responsibilities and authority for each of the assets are broken into the individual Orders in the 5530.X series.

4. Exercise Solutions

EXERCISE 2.3-A Discuss the specific responsibilities of the RCO associated with the Radiological Assistance Program.

ANSWER 2.3-A The RCO will respond to requests for assistance and dispatch, if necessary, a Radiological Assistance Team. The RCO may request that other agencies with available radiological resources also provide assistance. DOE involvement in minor radiological accidents will normally end when the need for assistance is over or when there are other sufficient available resources to handle the situation.

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EXERCISE 2.3-B Discuss the functions, capabilities, and limitations of the ARG.

ANSWER 2.3-B The ARG supports the Team Leader (TL)/Energy Senior Official (ESO) in weapon recovery operations and in evaluating, collecting, handling, and mitigating radioactive and other weapons-associated hazards. The ARG will work closely with the military Explosive Ordnance Disposal (EOD) Team to render safe the nuclear weapons/components. When the weapons recovery is completed, the primary mission of the ARG has been accomplished.

EXERCISE 2.3-C Who is the single point of contact for all DOE operational Elements at the incident site?

ANSWER 2.3-C The TL/ESO.

EXERCISE 2.3-D Who is responsible for the headquarters EM team?

ANSWER 2.3-D The Undersecretary chairs the executive team and the technical operations cadre.

EXERCISE 2.3-E Where are requests from off-site organizations for radiological assistance normally directed?

ANSWER 2.3-E To one of eight DOE RCOs.

EXERCISE 2.3-F When is DOE's radiological assistance terminated when providing assistance to state, local, tribal, or commercial authorities?

ANSWER 2.3-F DOE's radiological assistance will be terminated when it is no longer needed or the necessary assistance is available from state, local, tribal, or commercial authorities.

EXERCISE 2.3-G When is DOE RAP assistance NOT going to be utilized?

ANSWER 2.3-G For nonradiological emergencies.

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EXERCISE 2.3-H What is the lead time for requests for planned surveys?

ANSWER 2.3-H Requests for planned surveys must be submitted at least six months in advance to the Manager, DOE Operations Office, Nevada.

EXERCISE 2.3-I Who has oversight for the Aerial Measuring System, and what are the responsibility areas?

ANSWER 2.3-I The Assistant Secretary for Environment, Safety, and Health (EM-1) shall conduct oversight of environmental protection, radiation safety, worker safety, and those aspects of public health and safety that deal with epidemiology and exposure to hazardous materials.

EXERCISE 2.3-J What is the intent of the policy of the Department?

ANSWER 2.3-J To establish and maintain plans and procedures for providing DOE resources and support in response to requests for radiological emergency assistance and maintain the capability for coordinating the radiological monitoring and assessment activities for other Federal agencies, as well as to assist State, local, and tribal jurisdictions in preparing for and responding to radiological emergencies.

EXERCISE 2.3-K For what magnitude of radiological incidents does FRMAC provide assistance?

ANSWER 2.3-K Major radiological incidents.

EXERCISE 2.3-L To whom are the initial requests from outside the DOE complex for assistance submitted?

ANSWER 2.3-L Initial requests for assistance from outside the DOE complex could be directed to any of the Department's sites or directly to the HQ EOC.

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EXERCISE 2.3-M HQ programmatic responsibility for DOE's radiological emergency response assets, including the Atmospheric Release Advisory Capability, is assigned to whom?

ANSWER 2.3-M The Assistant Secretary for Defense Programs (DP-1).

EXERCISE 2.3-N What Operations Office is assigned responsibility for managing and maintaining the ARAC?

ANSWER 2.3-N The San Francisco Operations Office.

EXERCISE 2.3-O What are the functions of REAC/TS?

ANSWER 2.3-O REAC/TS is a multipurpose medical facility that is prepared to deal with all types of radiation exposure emergencies and provide medical and health physics advice and assistance in radiological emergencies.

EXERCISE 2.3-P What Operations Office is responsible for maintaining the REAC/TS?

ANSWER 2.3-P The Oak Ridge Operations Office.